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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/918,443	08/01/2001	Yehuda Rest	00/21410	4731	
7590 12/01/2006			EXAMINER		
GE Ehrlich (1995) LTD Anthony Castorina 2001 Jefferson Davis Highway Suite 207			NGUYEN, TU X		
			ART UNIT	PAPER NUMBER	
			2618		
Arlington, VA 22202		,	DATE MAILED: 12/01/2006	DATE MAILED: 12/01/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)
	09/918,443	REST ET AL.
Office Action Summary	Examiner	Art Unit
•	Tu X. Nguyen	2618
The MAILING DATE of this communication ag		
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY OF THE MAILING I	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from tte, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 31 2 2a) This action is FINAL . 2b) This action for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pre	
Disposition of Claims		
4) ⊠ Claim(s) 1,4,7,9-13 and 15-18 is/are pending 4a) Of the above claim(s) is/are withdra 5) ⊠ Claim(s) 18 is/are allowed. 6) ⊠ Claim(s) 1,4,7,9-13 and 15-17 is/are rejected 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	ccepted or b) objected to by the e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicat ority documents have been received in Applicat (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	o □	(DTO 442)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

DETAILED ACTION

Response to Amendment

Applicant's arguments with respect to claims 1 12, have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4, 7, 9-13 and 15-17, are rejected under 35 U.S.C. 103(a) as being obvious over Davidson et al. (US Patent 6,735,184) in view of Vassilovski et al. (US Pub. 2003/0012159).

Regarding claims 1 and 12, Davidson et al. disclose a cellular telephone network comprising peripheral branches and a central high capacity data trunking region (see col.1 line 30 through col.3 line 44) and wherein said high capacity data trunking region comprises a satellite interface for a satellite connection using a TCP/IP protocol (see col.5 lines 40-50);

said satellite interface comprising an E1-TCP/IP converter being operable to receive E1 signaling (see col.5 lines 5-39) containing SS7 control signaling distributed therein at a predetermined data rate, said converter using a multiplexer for converting between the E1 signal and the TCP/IP signal (see col.5 line 40 through col.6 line 4);

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wherein said high capacity trunking region comprises a terrestrial high capacity trunking connection in parallel with said satellite connection such that said satellite connection is usable back up said terrestrial connection (see abstract, "redundancy" corresponds to "back up").

Davidson et al. disclose fail to disclose containing SS7 control signaling distributed therein at a predetermined data rate.

In the related art, a terrestrial and satellite interface using IP protocol, Vassilovski et al. disclose SS7 control signaling distributed therein at a predetermined data rate (see par.019-020, SS7 is considered to have a typical data rate of 56 or 64Kbps). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Davidson et al. with the above teaching of Vassilovski et al. in order to support VOIP (as suggested by Vassilovski et al., see par.001).

Regarding claim 4, the modified Davidson et al. disclose wherein said high capacity trunking region comprises a terrestrial high capacity trunking connection in parallel with said satellite connection such that said terrestrial high capacity trunking connection is usable to back up said satellite connection (see Davidson et al., col.5 lines 5-39).

Regarding claim 7, the modified Davidson et al. fail to disclose said satellite link is via geostationary satellite; however, the Examiner takes an official notice that the concept satellite is a geostationary satellite is well known at the time the invention was made to provide a geostationary satellite in order to support synchronous signaling (as suggested by Davidson, see col.3 lines 25-27).

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Regarding claim 9, the modified Davidson et al. disclose an extractor for extracting ss7 signaling, and a TCP/IP packet former for arranging extracted signaling into TCP/IP packets (see Vassilovski et al., par.020).

Regarding claims 10 and 16, the modified Davidson et al. disclose said converter comprises an encoder for encoding synchronization control data describing said E1 signal in headers of TCP/IP packets, thereby to enable subsequent synchronous reconstruction of said E1 signal (see Davidson, col.6 lines 5-8).

Regarding claim 11, the modified Davidson et al. disclose at least one of said peripheral branches comprises a satellite link and an E1 TCP/IP interface (see Davidson, col.5 lines 17-20).

Regarding claim 13, the modified Davidson et al. disclose said interfaces are arranged to provide said satellite link as a parallel path to a terrestrial data link (see col.5 lines 40-50).

Regarding claim 15, the modified Davidson et al. disclose at least one base station connected to at least one mobile switching center, said at least one mobile switching center being associated with at least one location register, and wherein said satellite link is arranged to connect said at least one mobile switching center with said at least one location register (see Davidson, fig.4, elements 445, 477).

Regarding claim 17, the modified Davidson et al. fail to disclose a buffer controllable according to said decoded synchronization information to recreate time delay relationships of said telephony protocol data stream; however, the Examiner takes an official notice that the concept a buffer and decode synchronization information to recreate time delay is well known

at the time the invention was made to provide delay for an expected delay such a far distance between a satellite an a terrestrial network.

Allowable Subject Matter

Claim 18 is allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 18, the prior arts fail to teach "interfaces comprising a non-data carrying time slot remover for removing said non-data carrying time slots during conversion into said asynchronous protocol and a time slot regenerator for regenerating non-data carrying time slots during reconstruction", as cited in the claim.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed Tu Nguyen whose telephone number is 571-272-7883.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 21, 2006

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